



Stevens Institute of Technology





- Col. John Stevens III (1749-1838)
 - Treasurer of NJ in Revolutionary War
 - Bought land that became Hoboken
- With second son Robert Livingston Stevens, pioneered steam transportation
 - First U.S. steam locomotive
 - Robert invented the T-rail and the cow-catcher
 - Helped pass first U.S. patent laws



- Edwin A. Stevens
 - 1795 1868
 - Third son of Colonel John
 - Founded Institute in 1870
 - Stevens family made fortune in transportation: toll roads, ferries and railroads



The Stevens Family founded the America's Cup



ASME launched at Stevens in 1880



Gantt graduated from Stevens in 1884

More than 140 Years of Innovation



Notable Alumni Achievements

- Invented the field of scientific management
- Invented the Gantt Chart
- Founded General Motors and Texas Instruments
- Originated the mobile art form
- Claimed two Nobel Prizes
- Discovered the neutrino
- Directed space shuttle design for NASA's Apollo missions
- Pioneered one of the nation's first true intranets
- Invented the IMAP software protocol
- Invented bubble wrap



Strategic Plan – Stevens 2022

The Future. Ours to Create.

Strategic Priorities

- Student-Centricity: nurturing student success
- Excellence In All We Do: strengthening the caliber of people, facilities and research
- Through Collaboration, Impact: offering a holistic, interdisciplinary education
- Technology at Our Core: using technology to transform

Areas of Focus

- Healthcare and Medicine
- Sustainable Energy
- Financial Systems
- Defense and Security
- Coastal Sustainability
- Science, Technology, Engineering and Mathematics (STEM) Education

Stevens Today



Students

2,900 undergraduate students3,300 graduate students47 U.S. states and 60 countries representedAverage GPA 3.83. SAT 1260-1410

Programs of Study

- 34 undergraduate majors
- 19 PhD programs
- 59 Master's degree programs
- 100+ graduate certificates

Faculty

380 faculty, including 291 full time





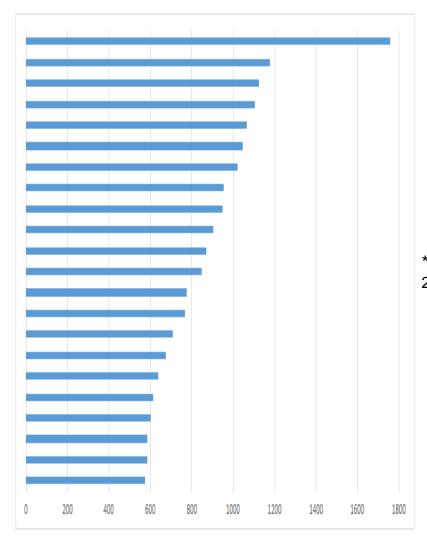
Stevens Education Driven by Real-World Experience

- Cooperative education
- Internships
- Faculty-mentored research
- Senior design
- Cross-disciplinary collaboration reflective of real-world project teams
- Case studies drawn from industry

Stevens is 8th in Engineering Master's Degrees



- 1. University of Southern California
- 2. University of Florida
- 3. The Johns Hopkins University
- 4. Georgia Institute of Technology
- 5. Columbia University
- 6. Stanford University
- 7. University of Michigan
- 8. Stevens Institute of Technology
- 9. Carnegie Mellon University
- 10. Arizona State University
- 11. NYU Polytechnic School of Engineering
- 12. North Carolina State University
- 13. Massachusetts Institute of Technology
- 14. Cornell University
- 15. University of Illinois, Urbana—Champaign
- 16. The George Washington University
- 17. San Jose State University
- 18. The University of Texas at Dallas
- 19. New Jersey Institute of Technology
- 20. University of California, Los Angeles
- 21. Northeastern University (tied with UC---LA)
- 22. University of Pennsylvania



*Ref: ASEE, 2013-2014 Degrees

Stevens Leadership



- Ranked 3rd in the U.S. for 20-year net ROI in 2015 PayScale Report
- Ranked 3rd in nation for "Best Career Placement" by Princeton Review 2015
- Ranked 7th in nation for best engineering colleges by USA Today 2015
- Ranked 8th in the nation for Engineering Master's Degrees (ASEE)
- Faculty appointed to the National Academy of Engineering (NAE) and the National Academy of Science (NAS)
- Nobel Prize winning faculty in Physics
- Finished 1st globally in the 2015 U.S. Department of Energy (DOE) Solar Decathlon
- Won the National Award for Excellence in Academic Leadership of Undergraduate Education Programs in Engineering Management by the American Society for Engineering Management (ASEM) in 2013
- Leading "University Affiliated Engineering Research Center" in Systems Engineering (UARC-SERC)



Research Center

SERC: 22 University Research Collaborators





The Research Enterprise



NATIONAL CENTERS of EXCELLENCE at STEVENS INSTITUTE of TECHNOLOGY



CSR
The National Center for Secure Resilient Maritime
Commerce



SERC Systems Engineering Research Center



ACCESS
Atlantic Center for the Innovative Design and
Control of Small Ships

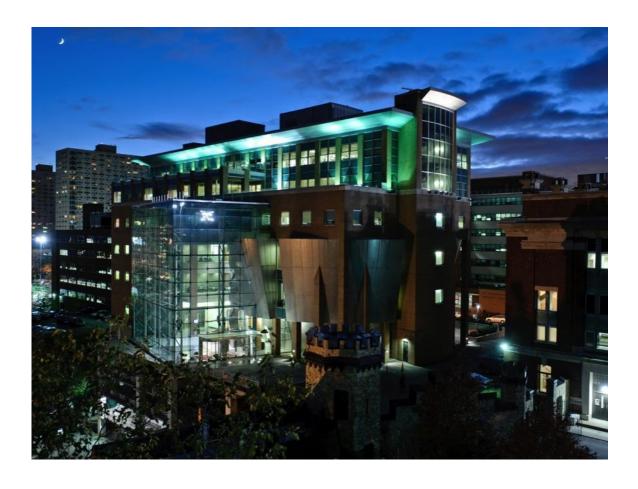
Overview

- \$43 million in sponsored research
- 70% of faculty conduct externally funded research
- 400 Doctoral Students
- Funding from NSF, NIH, DARPA, ARMY, NAVY, AIR FORCE, DOE
- 3 National Centers of Excellence
- 11 Additional Research Centers

Research Centers

- Center for Complex Systems & Enterprises (CCSE)
- Financial Systems Center (FSC)
- Center for Coastal Resilience and Urban Xcellence (CRUX)
- Center for Healthcare Innovation (CHI)
- Center for Environmental Systems (CES)
- Center for Maritime Systems (CMS)
- The NJ Center for Microchemical Systems
- Highly Filled Materials Institute (HDMI)
- Design & Manufacturing Institute (DMI)
- Center for Decision Technologies (CDT)
- Center for Innovation in Engineering & Science Education (CIESE)





About the School of Systems & Enterprises (SSE)

SSE: Divisions and Research Centers



SYSTEMS & SOFTWARE DIVISION

Dr. Jon Wade

BE: Software EngineeringME: Systems Engineering; SpaceSystems EngineeringMS: Software Engineering;Socio-Technical Systems

Ph.D.: Systems Engineering; Socio-Technical Systems

Systems Engineering Research Center (SERC)

ENTERPRISE SCIENCE & ENGINEERING DIVISION

Dr. Jose Ramirez-Marquez

BE: Engineering Management **ME:** Engineering Management; Systems Analytics

Ph.D.: Engineering Management

Center for Complex Systems and Enterprises (CCSE) Center for Coastal Resilience and Urban Xcellence (CRUX)

FINANCIAL ENGINEERING DIVISION

Dr. Khaldoun Khashanah

MS: Financial Engineering; Financial Analytics

Ph.D.: Financial Engineering

Financial Systems
Center (FSC)









SSE's Open Academic Model



- Develop meaningful alliances with academic partners to develop and leverage "best of breed" thinking and competencies
- Blur the boundary between the academic setting and the industry/government reality:
 - Bringing a fresh perspective to industry and government in an executable form
 - Bringing the industry and government reality into academia in a researchable or usable form

Our Partners



